

Safety Instructions & Operator's Manual

SNAPPER®

21" HI-VAC WALK MOWERS STANDARD MODELS SERIES 0

R21400, P21400, RP21400
21500, R21500, P21500
RP21500, R21500T2
RP21500T2, RP21500KWV
P21550V, RP21550V



Thank you for buying a SNAPPER product! Before operating your mower, read this manual carefully and pay particular attention to the **Important Safety Instructions on page 2. Remember that mowers and all power equipment can be dangerous if used improperly and keep in mind that safety requires careful use in accordance with the instructions andcommon sense!**

This manual covers SNAPPER 21" HI-VAC Series 0 (last numeral in the five digit model designation) walk behind mowers. A letter "D" prefix designates side discharge models. Models with an "M" prefix are recycling mowers. Those having a "P" prefix are self-propelled. Models having a "T" suffix are Tecumseh powered; all others are Briggs & Stratton powered. A number 2 suffix denotes 2-cycle engines, and a "V" is used to distinguish engines equipped with overhead valves. Differences are pointed out wherever pertinent, throughout the manual.

SNAPPER® McDonough, GA., 30253 U.S.A.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to comply with the following Instructions may result in serious injury to the operator or other persons. The owner of the mower must understand these instructions and, furthermore, must allow only persons who understand these instructions to operate mower. Each person operating the mower must be of sound mind and body and must not be under the influence of any substance which might impair vision, dexterity, or judgement. If you have any questions pertaining to your mower which your dealer cannot answer to your satisfaction, call or write the Customer Service Department at SNAPPER, McDonough, Georgia, 30253. Phone: (404) 954-2500.

TRAINING

1. Read this Manual carefully and question your dealer if something is not clear. Should the dealer be unavailable or unable to answer to your satisfaction, write or call our Customer Service Department at the factory. Be thoroughly familiar with the controls and proper use of the equipment.
2. DO NOT allow children in yard when mower is operated.
3. DO NOT allow pre-teenage children to operate mower.
4. Allow only responsible teenagers with mature judgement to operate mower and only under close supervision.
5. Keep the area clear of all persons, particularly small children, and pets.

PREPARATION

1. Never operate mower without proper guards, plates, safety switches, or other safety protective devices in place and properly connected. Inspect to determine that these safety devices are installed properly, are in good repair, and operate properly. If the condition or operation of these devices are questionable, they must be repaired or replaced before using the mower.
2. Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wire, bones and other foreign objects. Also note the location of holes, stumps, and other possible hazards.
3. DO NOT operate mower when barefoot or wearing open sandals. Always wear substantial footwear and long pants.
4. Fill gasoline tank before starting engine. Use approved gasoline container. DO NOT smoke near open gasoline container. DO NOT fill gasoline tank indoors or when engine is running. Allow engine to cool for at least ten minutes before refilling. Wipe off any spilled gasoline before starting engine. DO NOT run engine indoors.
5. Make sure that traction drive clutch control is disengaged before starting engine.
6. Never attempt to make a cutting height adjustment while the engine is running.
7. When mowing over rough ground or in tall grass, mower must be set at highest cutting position.
8. Mow only in daylight or in good artificial light.
9. Never operate mower in tall grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run!
10. DO NOT operate mower without the grass bag, side chute or plug in place.

OPERATION

1. DO NOT change engine governor settings or overspeed engine.
2. DO NOT put hands or feet near or under rotating parts. Keep clear of discharge area while engine is running.
3. Stop engine when crossing gravel drives, walks, or roads, and under any conditions where thrown objects might be a hazard.
4. After striking a foreign object or if mower vibrates abnormally, stop the engine, disconnect and secure spark plug wire. Inspect the mower for any damage and repair the damage.
5. Stop blade and engine whenever you leave the operating position behind the handle for any reason, including clearing grass, emptying grass bag and making any adjustments, repairs, or inspections.
6. Before cleaning, repairing or inspecting, make certain blade and all moving parts have stopped. Disconnect and secure spark plug wire away from plug to prevent accidental starting.
7. Stop engine and wait until the blade comes to complete stop before removing grass bag and/or clearing grass.
8. Mow across slopes, never up-and-down. Exercise CAUTION when changing directions on slopes. DO NOT mow steep slopes or other areas where stability or traction is in doubt.

MAINTENANCE AND STORAGE

1. Keep all nuts, bolts, and screws tight to be sure mower is in safe operating condition.
2. Never store mower with gasoline in tank inside of a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
3. To reduce fire hazard, keep mower free of grass, leaves or excessive grease.
4. Check grass bag assembly frequently for wear or deterioration. Replace with new bag if loose seams or tears are evident. Replace slider or bag adapter if broken or cracked.
5. Have your mower inspected and serviced each year by an authorized Snapper dealer. Determine if any additional devices are available which might upgrade the safety of your mower.
6. Factory specified Snapper replacement parts must be used to assure adequate protection against injury.

INTRODUCTION

This manual covers SNAPPER Series 0 walk behind 21" push and self-propelled mowers. Series 0 models can (with the proper attachments) discharge chopped and shredded mixed clippings (MULCHING), bag clippings (GRASS BAG), or vacuum thatch (THATCH-ERIZER & GRASS BAG), or vacuum clippings and leaves (SNAPPERIZER & GRASS BAG).

The THATCHERIZER is recommended for self-propelled models. For more complete descriptions, refer to the POPULAR ACCESSORIES section.

OPERATING PROCEDURE

Know how to stop the mower in preparation for possible emergencies **BEFORE** the first start-up!

For easier starting, move the mower to an area where the blade can turn freely without being restricted by tall grass.

The engine (and blade) is stopped by releasing the BLADE CONTROL (7). On self-propelled models, releasing the WHEEL DRIVE control (19) stops the forward movement of the mower. Refer to FIG. 1 for locations of controls.

KNOW AND OBSERVE THE IMPORTANT SAFETY INSTRUCTIONS WHEN OPERATING THE MOWER!

WARNING: Never place your hands or feet near the blade while the engine is running!

Always disconnect the spark plug wire before inspecting/servicing the blade or mower!

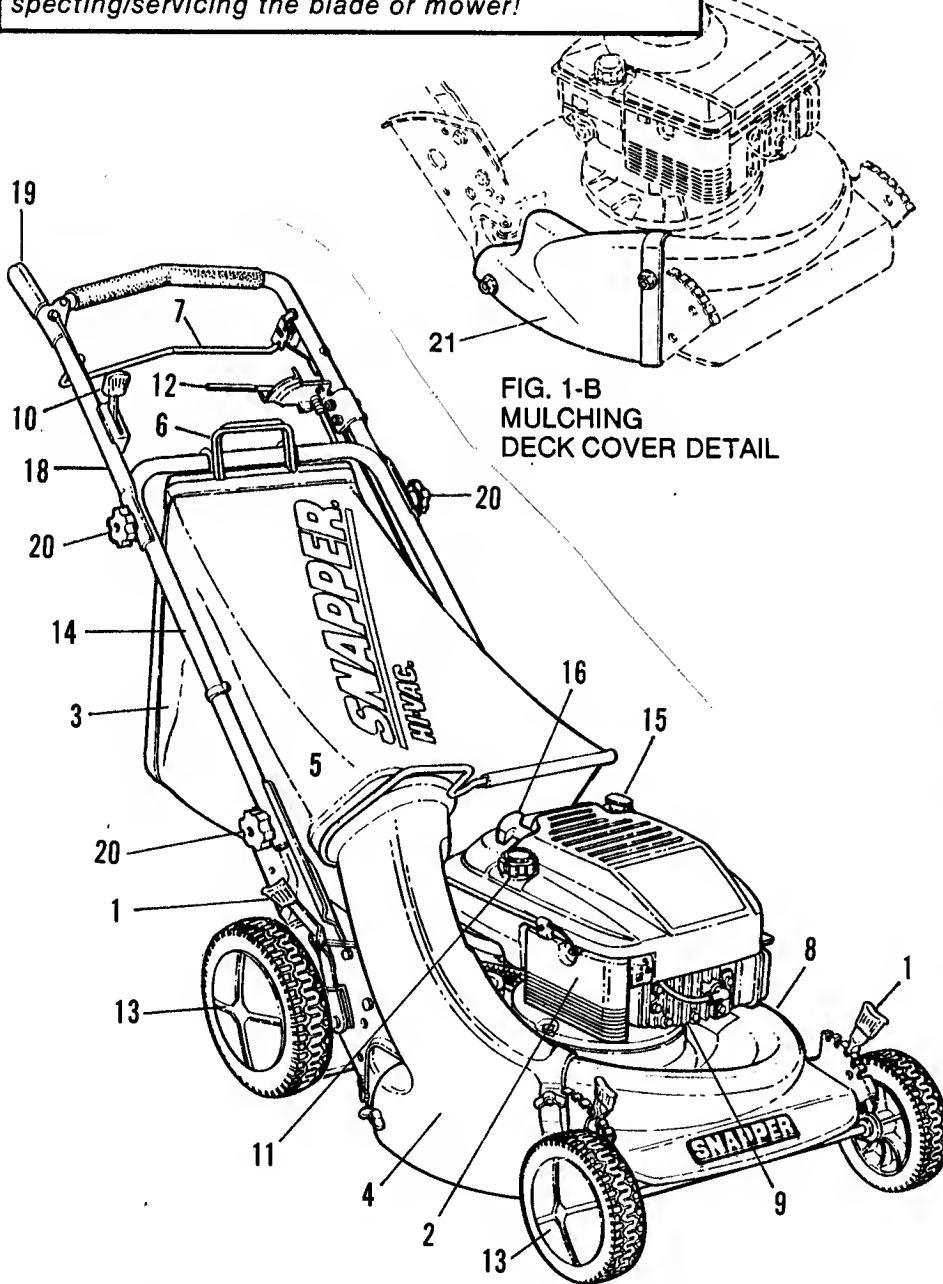


FIG. 1-ROPE START
LOCATION OF CONTROLS/FEATURES

OPERATING/SERVICE POINTS

- 1 ADJUSTING LATCH (HEIGHT)
- 2 AIR BREather (COVER)
- 3 BAG
- 4 BAG ADAPTOR
- 5 BAG CONNECTOR
- 6 BAG WIRE SUPPORT
- 7 BLADE CONTROL
- 8 DECK
- 9 ENGINE
- 10 ENGINE CONTROL LEVER
- 11 FUEL FILLER CAP
- 12 GROUND SPEED CONTROL
- 13 HUB CAP
- 14 LOWER HANDLE
- 15 OIL FILLER (DIPSTICK)
- 16 ROPE START HANDLE
- 18 UPPER HANDLE
- 19 WHEEL DRIVE CONTROL
- 20 KNOB
- 21 DECK COVER (RECYCLING)

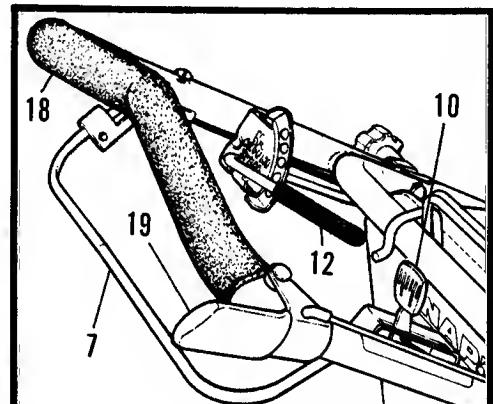


FIG. 1-A - LOCATION OF
CONTROLS/FEATURES

PRE-START CHECKS

Prior to each start-up, check/service as needed:

- **CHECK** guards, BAG (3), BAG ADAPTOR (4), DECK COVER (21) or side discharge chute for proper position and tightness.

NOTE: The "tab" on the inside rear edge of the adapter side chute, or mulching cover, must push the interlock spring in toward the center of the mower. If the tab is improperly installed, the engine **CANNOT** be started.

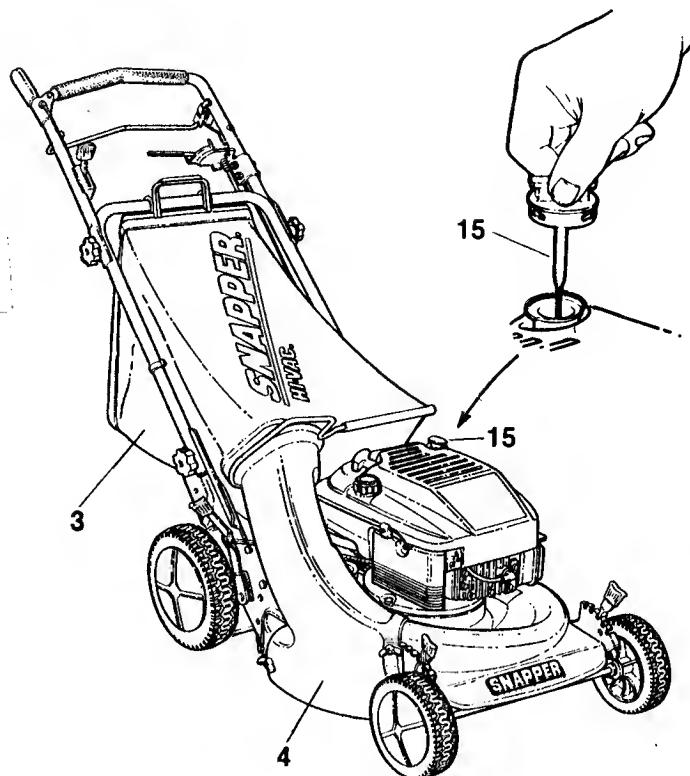
- **CLEAN** surfaces to remove dust, dirt, and clippings - particularly from the cooling air intake screen on engine to prevent overheating.

- **CHECK** oil level in 4-cycle engines and add oil as needed to bring the level up to but not over the dipstick (15) "FULL" mark. Refer to FIG. 2.

- **CHECK** cutting height and adjust as needed, to suit the prevailing grass conditions. Refer to FIG. 5.

- **CHECK** fuel level in tank after pushing mower outdoors where fumes will safely dissipate. On 2-cycle engines, use the correct fuel to oil ratio as specified in the engine manual.

FIG. 2-DIPSTICK LOCATION



STARTING/STOPPING ENGINE

NOTE: Stop the engine (and blade) by releasing the **BLADE CONTROL**.

ROPE START:

1. Move ENGINE CONTROL lever to CHOKE position. On Primer equipped models, move the control lever to the RUN position and then push the primer button if the engine is cold.
2. Hold BLADE CONTROL (7) firmly against UPPER HANDLE (18) - otherwise the engine will not start! Refer to FIG. 3.
3. Place left foot on top of left rear tire with toes pointing forward.
4. Bend at waist to reach ROPE START HANDLE (16) and straighten up as you pull handle - using back muscles more than arm muscles.
5. Continue pulling ROPE START HANDLE until the engine starts. Guide rope slowly back into engine shroud to prevent rope breakage which could result if the handle is allowed to snap back. Continue holding the BLADE CONTROL while moving around behind the UPPER HANDLE to the Operator's position.

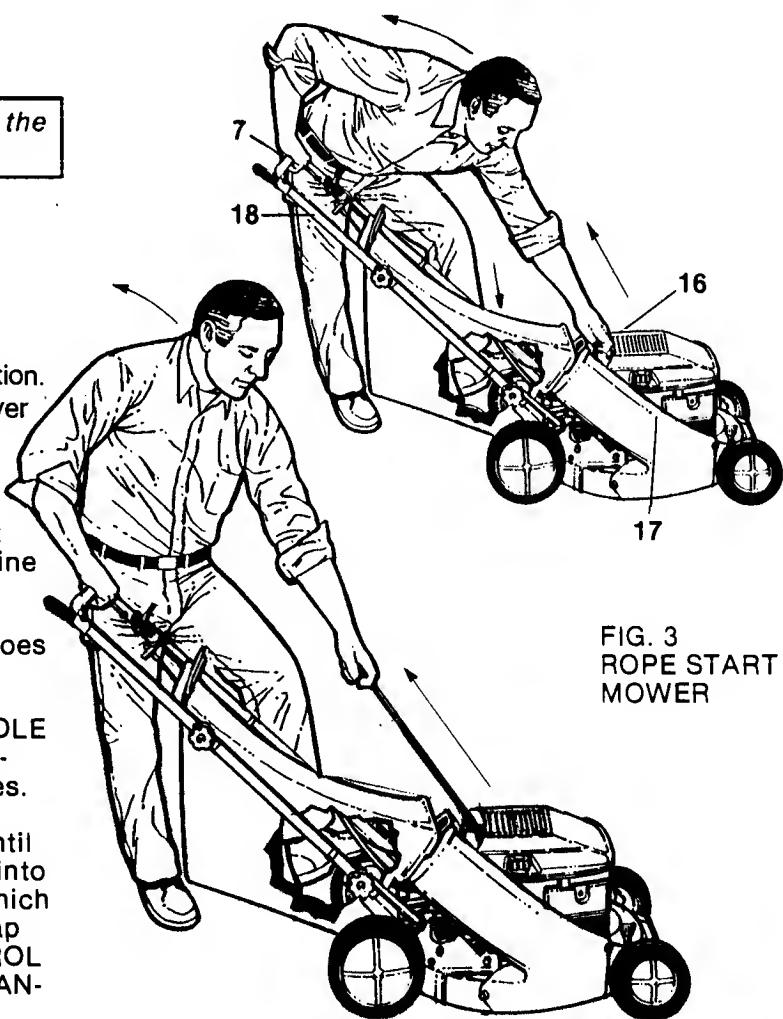


FIG. 3
ROPE START
MOWER

CUTTING HEIGHT ADJUSTMENT

ALWAYS STOP THE ENGINE AND WAIT UNTIL THE MOWER'S BLADE STOPS COMPLETELY BEFORE RE-ADJUSTING CUTTING HEIGHT!

To re-adjust mower cutting height, pull each of the four height ADJUSTING LATCHES (1) outward toward the wheel and then slide into the desired notch. Set both latches on one side and then set the two on other side into corresponding notches. When setting the rear latches into LOWER notches, raise the rear wheels off the ground to ease procedures. It is recommended that no more than 1/3 the height or 2" maximum be cut from the grass.

EXAMPLE: If the grass is 4" tall, set the four ADJUSTING LATCHES (1) in notch 5 (the highest blade setting) which will leave the grass at approximately 3" tall after cutting -well within the 1/3 off limit. If you prefer shorter grass, wait a few days before recutting at a lower setting. If cut short too frequently, the root system will be more subject to burning, due to energy being expended toward the development of new leaf structures rather than the necessary development and reinforcement of a good healthy root system!

If allowed to grow too tall, the lower portion (which will then be shaded) will discolor.

During dry seasons, allow the grass to grow taller than normal. Refer to FIG. 5-A.

RECYCLING OPERATION

For best results when recycling, set the cutting height in notch 5 (highest blade setting) or notch 4 and mow with the engine speed control in fastest speed setting. Operate the mower at slowest ground speed to allow fine chopping of the clippings or leaves. The grass must be dry. If the grass is extremely dense, set the front height adjusters one notch lower than the rear adjusters to raise the front of the deck. Experiment with deck settings to achieve best recycling.

MOWING PROCEDURE

Set the ENGINE CONTROL lever (10) in the fast (F) position for thick grass, AND slow down (reduce "Ground Speed") OR narrow the cut to less than the full blade width.

NOTE: It is recommended that the ENGINE CONTROL lever be set in the "FAST" position (higher RPM's when recycling).

On self-propelled models, set the GROUND SPEED CONTROL lever (12) in the desired setting and then grasp the WHEEL DRIVE CONTROL (19) and hold against the UPPER HANDLE (18) to engage clutch. To stop the mower's forward movement, release the WHEEL DRIVE CONTROL - the mower can then be pushed forward or pulled for trimming. Experiment and adjust the ENGINE CONTROL lever and the GROUND SPEED CONTROL until the mower functions best for your turf conditions. The speed of forward movement can be varied while the mower is moving by changing the GROUND SPEED CONTROL setting as desired. Remember - BLADE CONTROL (7) engages the blade.

NOTE: The highest cutting position is attained with the four latches set in notch 5. The lowest cutting position is with latches set in notch 1. Refer to FIG. 5.

FIG. 5
CUTTING HEIGHT
ADJUSTMENT

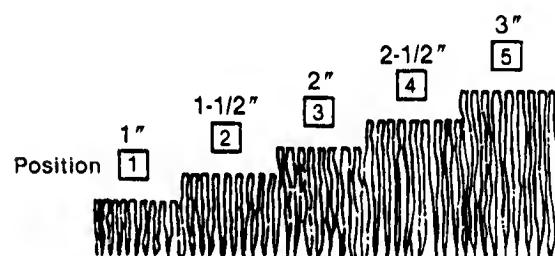
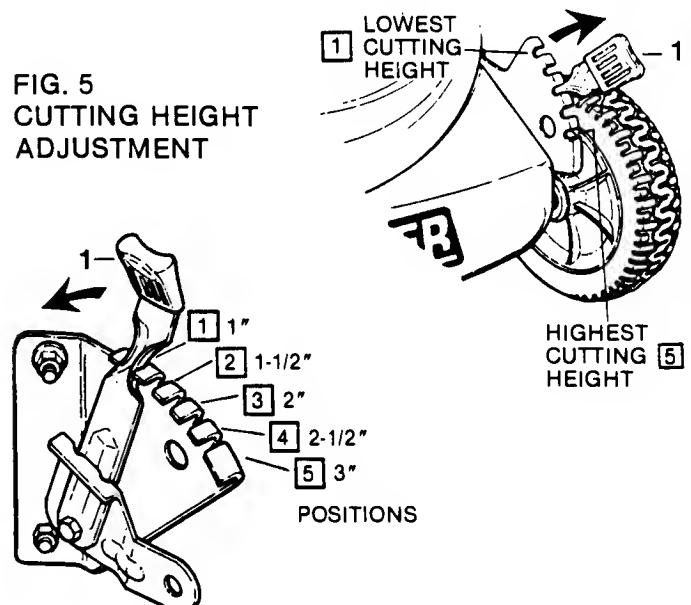


FIG. 5-A-CUTTING HEIGHT SETTINGS

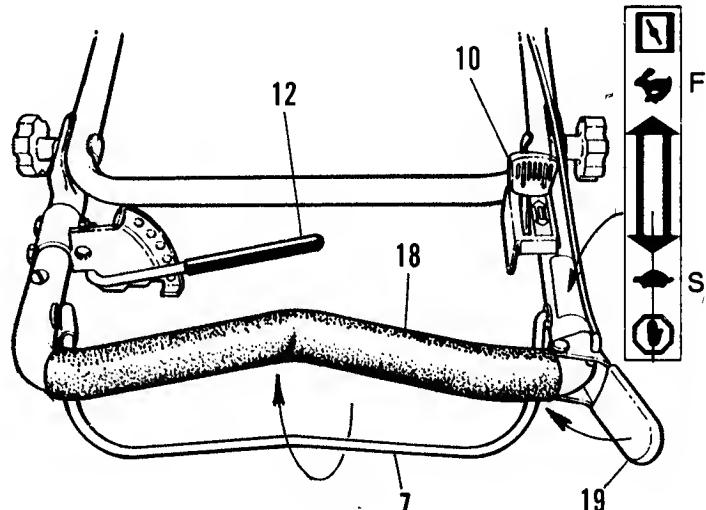


FIG. 6-MOWING CONTROLS

NOTE: When mowing down-hill, use a "low" setting on the GROUND SPEED CONTROL lever, and brake by engaging and disengaging the WHEEL DRIVE CONTROL (CLUTCH).

MOWING / VACUUMING HINT: THE MOWING DECK SHOULD BE LEVEL UNDER ALL CONDITIONS.

NOTE: Following the use of a dry-type fertilizer, it is recommended that the lawn be sprinkled BEFORE using the mower - to avoid vacuuming up the fertilizer.

Changing your mowing pattern from time to time creates a smoother cut lawn. Finely chopped clippings add nutrients to the soil-promoting grass growth! However, if accumulation becomes too heavy, matting can develop and "thatch" forms and prevents breathing, holds excessive moisture, and can destroy root structure! The **SNAPPER** Thatch-erizer Kit #6-0476 can prevent the development of thatch. Dislodged thatch can be vacuumed with your mower if it is equipped with the grass bag. If your **SNAPPER** is side discharge equipped, it can be easily converted to a bagger and back to a side discharge unit as often as desired! Refer to the **ACCESSORIES** section for kits available for your mower!

EMPTYING GRASS BAG

When the grass bag becomes full, stop engine and lift the **BAG WIRE SUPPORT** hooks (6) up over the **LOWER HANDLE** (14) and then lift the **BAG CONNECTOR** (5) off the adaptor flange and continue lifting while moving the bag forward until it clears the mower. To empty the bag, raise the connector end up and release the handle of the door flap. Shake the bag back and forth to dump the clippings. Refer to FIG. 7.

To re-install the bag, slide the **BAG CONNECTOR** down over the adapter flange, then lower the **BAG WIRE SUPPORT** hooks onto the **LOWER HANDLE**.

TO EMPTY INTO TRASH BAG: After removing the grass bag from the mower, place CONNECTOR end on ground, open door flap, slip a trash bag over the end (**BAG WIRE SUPPORT** end), and then turn the mower bag over so that the large opening is inside trash bag. Lift bag by the **CONNECTOR** and door handles and shake until clippings are dumped into the trash bag.

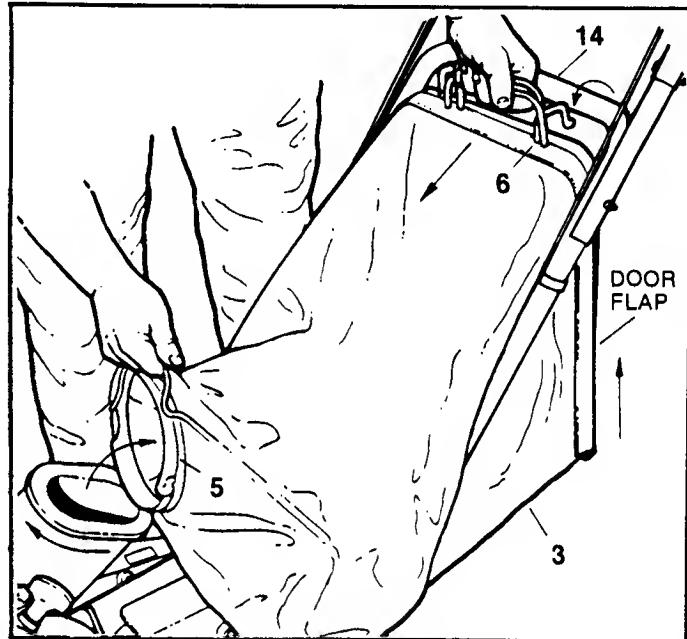


FIG. 7-EMPTYING GRASS BAG

SERVICE PROCEDURE

Your **SNAPPER** mower requires very little service, however, it is important that the engine be serviced at the intervals specified in the engine manual furnished with your mower.

To retain the integrity of your mower, only use Genuine **SNAPPER** Replacement Parts.

By returning your mower to an Authorized **SNAPPER** Dealer on a yearly basis for inspection and addition of any new devices to upgrade your mower, the reliability of the unit's functions will be assured.

Check the yellow pages under **LAWN MOWERS** for the nearest **SNAPPER** Dealer. Always mention the model and serial number of your mower when contacting the dealer for information, parts, or service.

WARNING: Always disconnect the spark plug wire from the spark plug when inspecting/servicing the mower - to prevent unintentional engine start-ups.

NOTE: When tipping the mower to work on the underside, always tilt the mower with the spark plug UP to prevent flooding the engine with gasoline and/or oil which would cause hard starting after servicing.

For engine parts/service, check the yellow pages under the heading **ENGINES - gasoline**, for the nearest engine manufacturer's dealer.

LUBRICATION SCHEDULE

• **ENGINE:** Change oil every 25 hours as specified in engine manual; check oil level before each use.

• **TRANSMISSION:** (on the self-propelled models): The transmission is filled with 4 ounces of **SNAPPER "OO"** grease at the factory and under normal usage, will not require additional grease. It is recommended that plug (A) be removed after every 25 hours of operation, and a visual determination of the lubrication condition of the transmission be made. If grease IS NOT visible on the INPUT GEAR (the small gear below the plug opening), add a small amount of **SNAPPER "OO"** grease. Reinstall the plug (A) after servicing the transmission. Refer to FIG. 8.

SNAPPER "OO" grease is available in a convenient squeeze container (Part No. 6-1017 at your **SNAPPER DEALER**).

CAUTION: DO NOT spill oil on the surface of drive disc (on self-propelled models).

OIL PLUG-DRAIN (UNDER DECK)

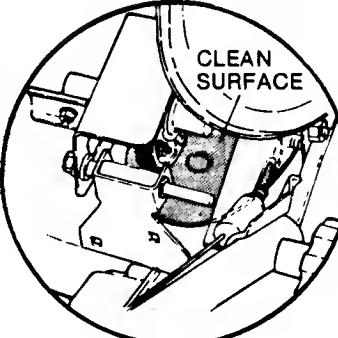
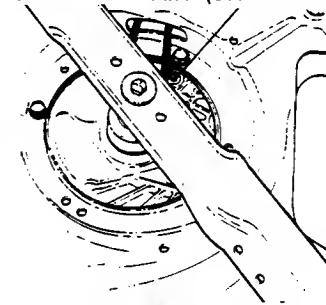
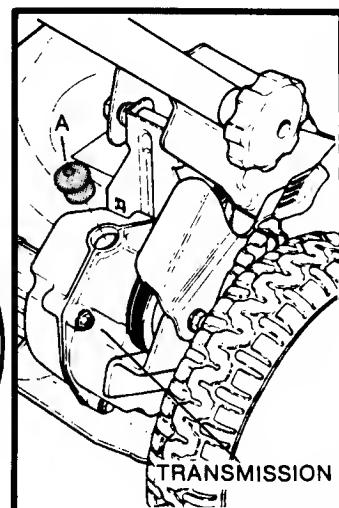


FIG. 8
TRANSMISSION
PLUG A



CUTTING BLADE SERVICE

WARNING: Always disconnect the spark plug wire and secure the end away from the plug before inspecting/servicing the blade, to prevent unintentional start-ups.

Inspect blade at frequent intervals for tightness and condition.

Refer to FIG. 9 for blade condition. Replace the blade if it is badly chipped, bent, noticeably out of balance, or has a notch worn in either tip - as shown in example B.

The B wear pattern occurs more rapidly under sandy soil conditions and appears between the flat surface and upturned "lift" lip at each end of blade tip.

WARNING: Never operate the mower with a blade worn to the extent shown in example C - the "tip" could fly off and cause personal injury or property damage.

BE CAREFUL: AVOID CUTTING YOURSELF ON A SHARP BLADE! Wear gloves to protect your hands while handling the blade.

WARNING: DO NOT operate the mower without the side discharge chute, adaptor/bag, or deck cover installed and properly secured!

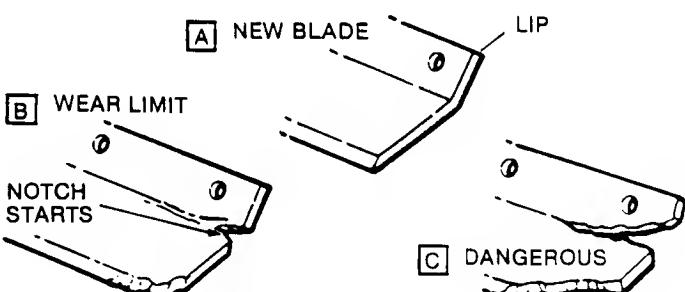


FIG. 9-BLADE WEAR PATTERNS

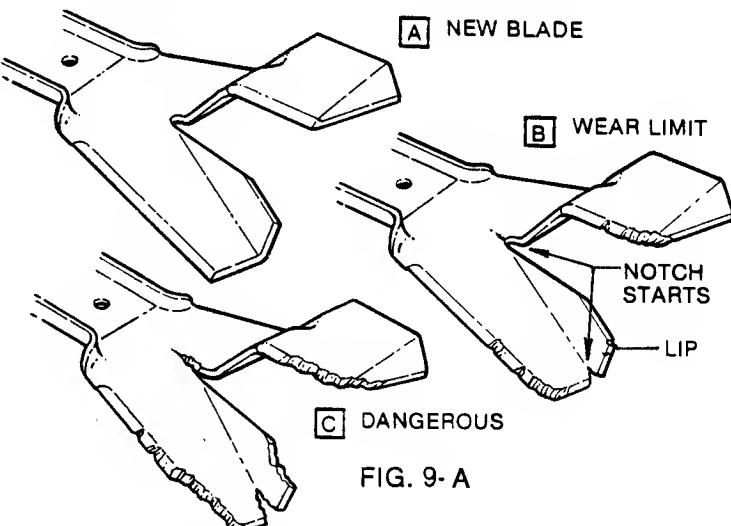


FIG. 9-A

NOTE: Shown in Figure 9-A are examples of some wear conditions found on SNAPPER'S special blade (NINJA) for recycling model mowers. This blade should be inspected more often than regular blades and special attention should be taken to make sure that the blade is kept in good condition. When a notch begins to appear AT ANY POINT on the blade, replace it immediately!

Sharpen the special recycling blade (NINJA) on a bench grinder at an angle of 22 to 28 degrees. Resharpen the cutting edges of this blade to their original shape.

When the blade's cutting edges have become dull (while in otherwise good condition), sharpen on a grinding wheel at an angle of 22 to 28 degrees.

The cutting surface (on each end) should extend inward about 3-1/2" from the tip. After sharpening, check the blade for balance - a blade "out of balance" will cause excessive vibration. Re-balance as required.

Re-install the blade with the components in proper sequence as shown in FIG. 10.

NOTE

SHARPEN THE SPECIAL RECYCLING BLADE (NINJA) ON A BENCH GRINDER AT AN ANGLE OF 22 TO 28 DEGREES.

DO NOT substitute any components! Make sure the flange on each side of blade (at the mounting hole) fits over the edge of the blade drive hub (A). Tighten the blade retaining capscrew (B) to **30 FOOT POUNDS TORQUE**.

CLUTCH LINKAGE (SELF-PROPELLED)

The vinyl (tube type) cover (A) should always conceal outer (B) and inner (C) clutch cable springs. The spring combination connects the clutch cable to the clutch idler components (refer to FIG. 11). The cover (A) prevents accumulation of dirt on the springs and eliminates the possibility of their wearing a hole through a grass bag.

ADJUSTMENT: Should excessive pressure be required to hold the WHEEL DRIVE CONTROL lever (19) against the UPPER HANDLE (18), spring adjusting is needed! Refer to FIG. 11.

When properly adjusted, there should be $1/16$ " to $1/8$ " clearance between the INSIDE of spring (B) hook and the INSIDE of the clutch cable "eye". Stop the engine and release the WHEEL DRIVE CONTROL lever and pull back cover (A) to check clearance.

To adjust, unhook springs from cable (at "eye") and rotate springs in opposite directions and re-hook to cable and check clearance. Repeat procedure if needed.

If the WHEEL DRIVE CONTROL lever fails to "snap" back when released, check for binding at the cable holding clip located on side of handle - it should be about 5" below the upper handle and permit the cable to slide freely. Refer to FIG. 11-A.

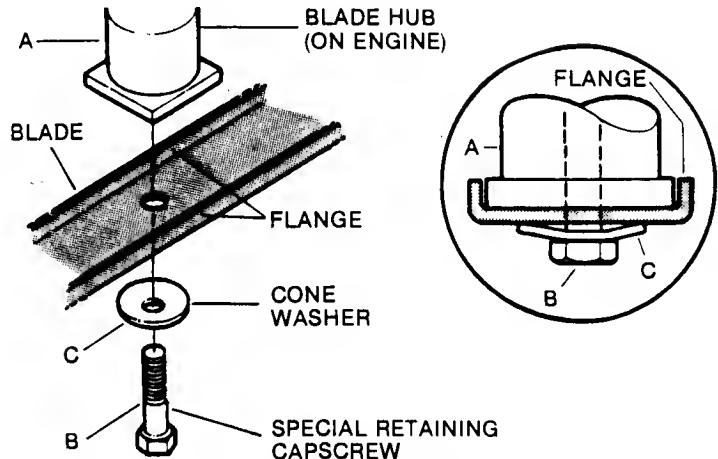


FIG. 10 - BLADE RETENTION DETAIL

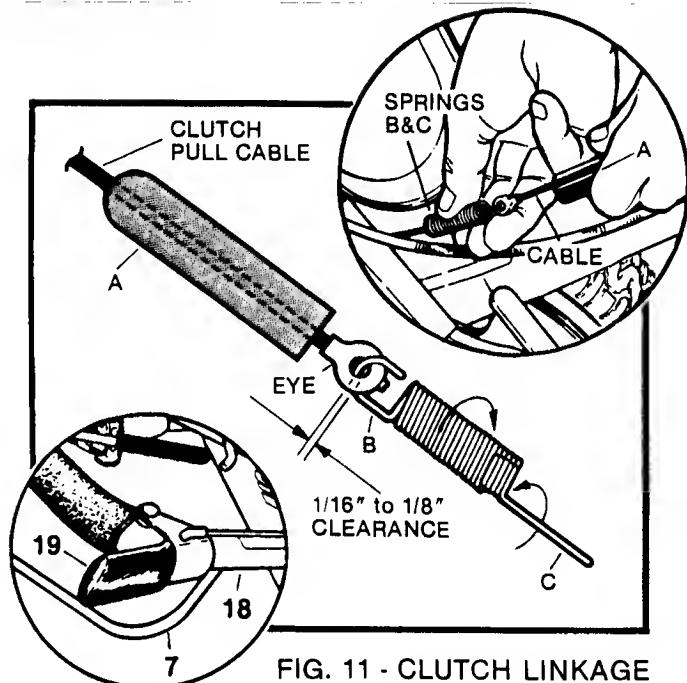


FIG. 11 - CLUTCH LINKAGE ADJUSTMENT

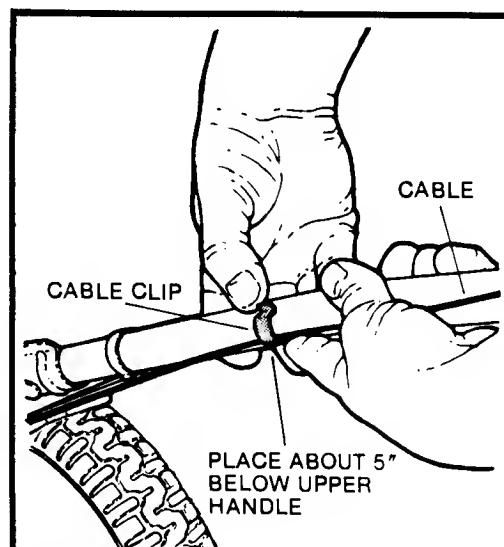


FIG. 11-A - CABLE CLIP

DRIVEN DISC SERVICE

If the mower does not pull properly, refer to FIG. 12, and check for the following:

- Grease on drive disc (C)-causing slippage.
- Broken or disconnected DRIVE SPRING (D) (also refer to FIG. 14).
- Driven disc rubber ring (B-1) worn - not contacting drive disc (C) properly.
- Driven disc (B) out of adjustment
- Worn belts

DRIVEN DISC ADJUSTMENT

The driven disc should be properly adjusted for optimum operation, minimum rubber ring wear, smooth shifting, and to prevent the mower from jumping out of gear due to misadjustment. If the clutch is properly adjusted, and both belts are in good condition (or are new), check the two adjustments and correct if necessary.

Check the "**DISTANCE**" from the **CENTER** of the driven disc's rubber ring to the left **EDGE** of the drive disc.

1. Shift the GROUND SPEED CONTROL into the highest setting, and **STOP** engine. The **CENTER** of the rubber ring should be **1/8"** to **1/4"** from the left **EDGE** of drive disc as shown. To re-adjust, loosen connector hex nut (A-1) then slide the driven disc **LEFT** or **RIGHT** (on hex shaft) as required. Re-tighten connector hex nut.

Check the "**TRACKING POINT**". The rubber ring should contact the drive disc's surface at a point **1/8"** *in front of* an imaginary reference centerline crossing through the center of the drive disc. You may wish to draw the centerline with a pencil.

When properly adjusted, the rubber ring will "Track" (run) **in place** approximately half way between the center of the drive disc and it's left **EDGE**, with the transfer rod (F) disconnected and the engine running. Perform this test before making adjustment number 2.

DRIVEN DISC REPLACEMENT: If the driven disc rubber ring (B-1) is found to be badly chunked or worn down to within **1/16"** of the metal rim of the driven disc hub (B), it must be replaced. Remove the clip (E) at end of speed control rod, and then turn the transfer rod (F) to a upright (vertical) position and detach from the connector (A) (FIG. 14 & 15). Unhook drive spring (D) (use needle nose pliers) and slide the driven disc assembly off hex-shaft.

Remove the five machine screws (G) and plate securing the driven disc rubber ring (B-1) to the hub (B) and replace the ring as shown in FIG. 15. Reverse procedures for re-assembly and installation.

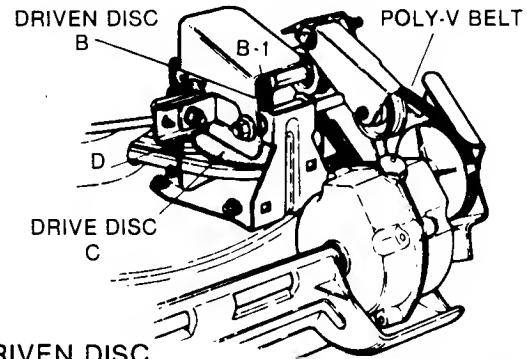


FIG. 12 -DRIVEN DISC

2. Re-adjust "Tracking", by imagining (or drawing) a reference line **across** drive disc center; loosen hex nut (W) securing thrust plate guide (X) to thrust plate (Y) at slot (Z).

Move driven disc (with thrust plate Y) **FORWARD** or **REARWARD** until the rubber ring contacts the drive disc surface **1/8"** *in front of* the imaginary reference centerline. Re-tighten hex nut (W). Perform the test again before reattaching transfer rod (F).

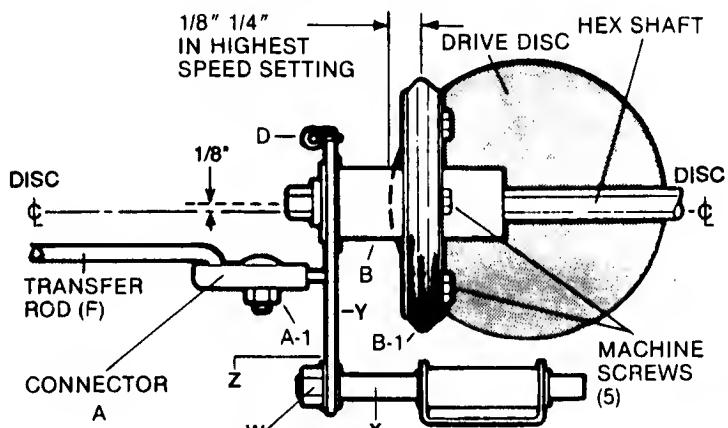


FIG. 13 -DRIVEN DISC COMPONENTS

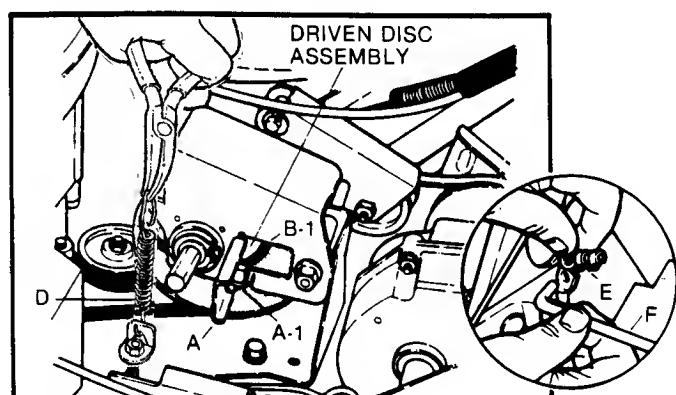


FIG. 14 -DRIVEN DISC ASSEMBLY

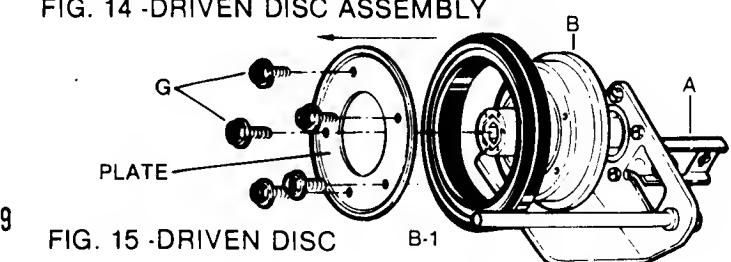


FIG. 15 -DRIVEN DISC

BEARING REPLACEMENT: If the driven disc bearing fails, remove the complete driven disc assembly as previously described. Then remove the snap ring (H) (special pliers are required) and slide the driven disc assembly out of bearing.

Remove the four retaining screws (I) and then the bearing (J). Reassemble in reverse order. Refer to the illustration FIG. 16.

To replace the bearing on pulley end of hex-shaft, hold the shaft with an adjustable wrench (next to the pulley). Then remove the 3/8" retaining hex lock nut (located on outside of right rear wheel bracket). Carefully remove holder, O-ring, and bearing and replace the bearing. Reassemble and carefully reinstall the O-ring over the outside of new bearing -securely tighten the two retaining screws as shown in FIG. 16-A.

FIG. 16
BEARING REPLACEMENT

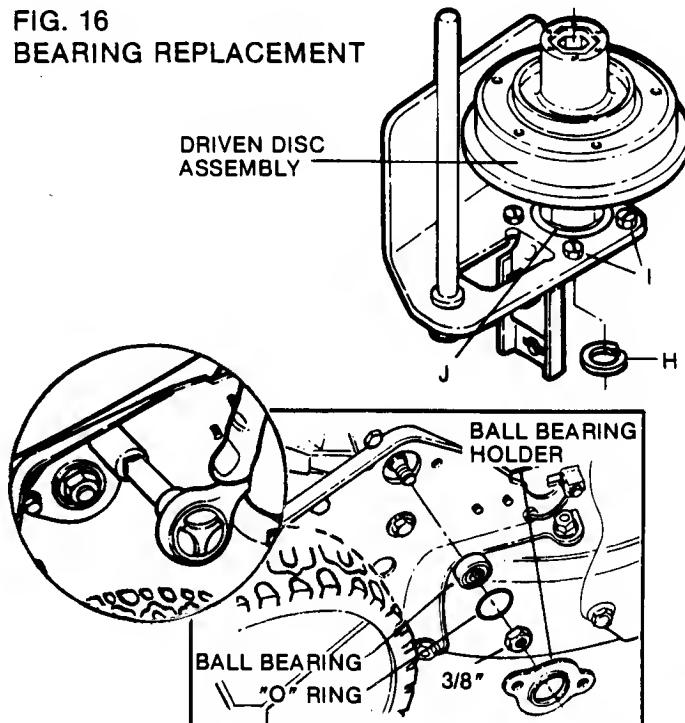


FIG. 16-A - BEARING REPLACEMENT

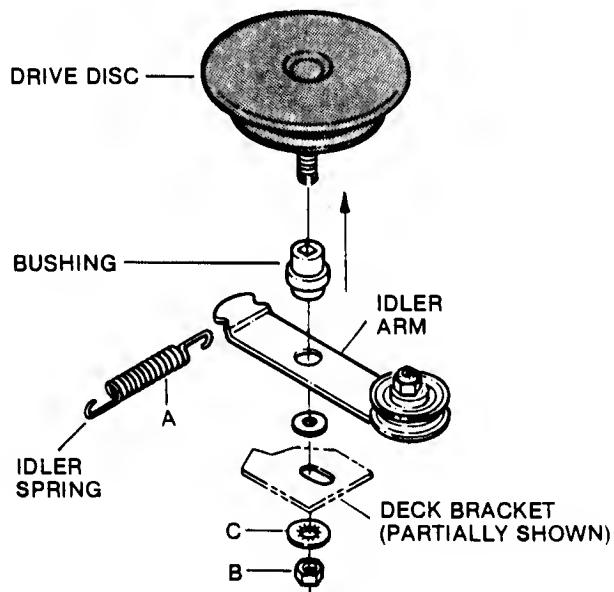
BELT SERVICE

Slippage (from worn belts) can prevent self-propelled models from maintaining optimum performance! On self-propelled models, the engine belt transmits power to the Poly-V-Belt, which in turn, engages the clutch to drive the transmission and rear drive wheels.

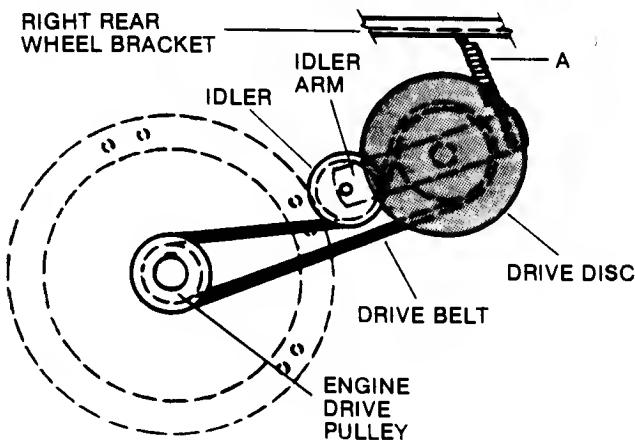
ENGINE BELT REPLACEMENT: Disconnect the spark plug wire and empty the fuel tank (or tape the vents in the filler cap closed to prevent fuel spillage).

Unhook the idler arm spring (A) from the right rear wheel bracket and remove the driven disc assembly as described in the DRIVEN DISC SECTION. Tilt the mower up on its LEFT wheels and remove the cutting blade and hub. Then, while holding the slotted end of the drive disc with a screwdriver, remove the drive disc retaining nut (B) and internal tooth lockwasher (C). Lift the drive disc up from its position on the idler arm and remove worn belt. Loop one end of replacement belt over engine drive pulley and insert other end through deck opening. Loop the belt around driven pulley (on the lower portion of drive disc) and lower disc back into position on idler arm. Make sure to reassemble components as shown in FIG. 17.

Reinstall the internal tooth lock washer (C) and retaining nut (B) onto drive disc post (on underside of deck), and securely tighten. Test the pivoting action of the idler arm - it must pivot freely! Reinstall the blade and fasteners on shaft as explained in the BLADE SERVICE section. Use a stiff wire (such as a coat hanger) with a hook on end to pull the hooked end of idler arm spring (A) through the large hole in right wheel bracket, and then hook the spring's end through the smaller hole. If the Poly-V-Belt is NOT going to be replaced, reinstall the driven disc assembly.



— FIG. 17 -IDLER & ENGINE BELT DETAIL —



POLY-V-BELT REPLACEMENT: The driven disc assembly must be removed first. Note the arrangement of the old belt around the three pulleys before cutting and removing it. Slip the replacement belt over the end of hex-shaft and onto pulley (A). Then work it onto idler pulley (B) and twist it sideways and pull upward between the differential bracket and transmission pulley (C) and then down into the pulley's groove. Make sure the belt is in each pulley's groove! Refer to FIG. 18.

NOTE: When properly installed, the lower span of Poly-V-Belt will be ABOVE the belt guide - below pulley (A).

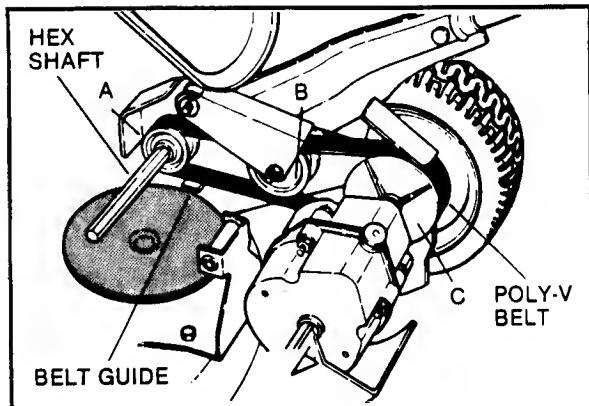


FIG. 18 -POLY-V BELT REPLACEMENT

STORAGE PROCEDURE

Refer to the engine manual for directions regarding engine storage preparations.

Prepare the mower for "end of season" storage as follows:

1. **DISCONNECT THE SPARK PLUG WIRE BEFORE ANY OTHER PREPARATIONS ARE MADE!**
2. Tape all openings closed to prevent spraying water into exhaust or air intakes during washing.
3. Turn the mower on its side and thoroughly clean the underside of the deck. Scrape away any accumulation of grass with a putty knife and/or wire brush. Then use a hose to wash down the underside of deck and allow to dry. Clean all external surfaces of mower and allow to dry.
4. Lubricate all exposed metal with a light coating of oil to prevent corrosion.
5. If so equipped, empty the grass bag to prevent decay of debris and formation of mold while in storage. The grass bag may be washed in detergent, but allow it to dry thoroughly!
6. Store the mower in a shed or other dry area, protected from weather.
7. Handles on push models may be tilted forward AFTER loosening both LOWER KNOBS 20. Grass bags and adaptors DO NOT need to be removed.

To tilt handles on self-propelled models, disconnect the transfer rod clip (on end of transfer rod and speed control lever) and follow the procedures above.

Carefully tilt the handles forward, "flexing" the control cables to prevent "kinks" (damage). Refer to FIG. 19.

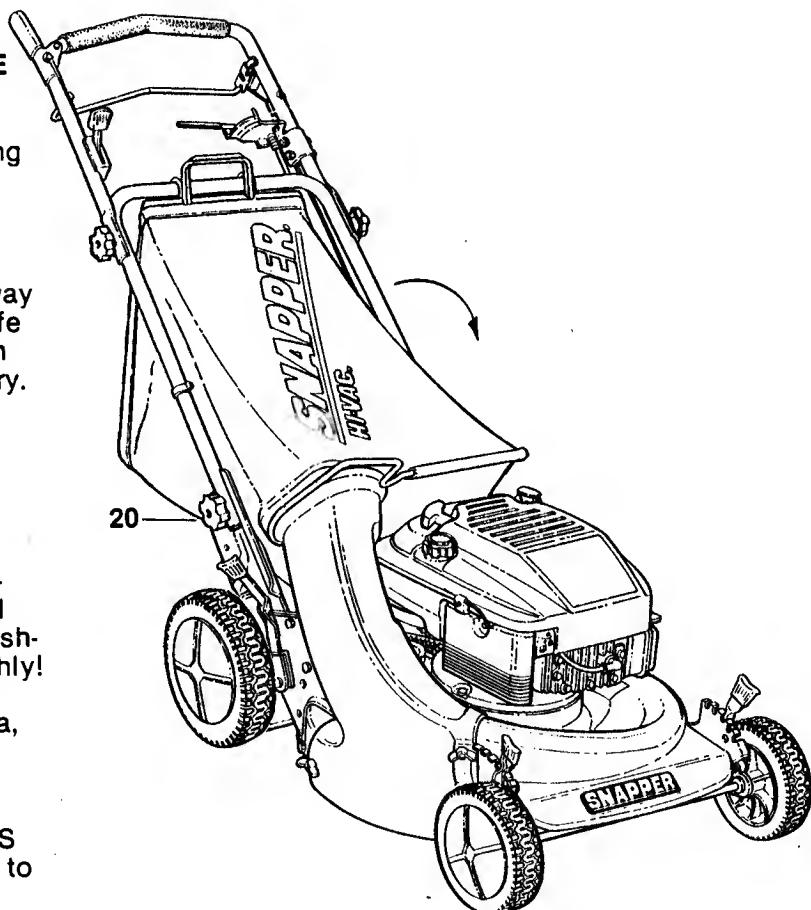


FIG. 19
HANDLE STORAGE

SNAPPER WALK BEHIND MOWER ACCESSORIES

19" & 20"STEEL DECK

PART NO.	DESCRIPTION	MODELS USED ON
6-0934	GRASS CATCHER (w / Adapter) (Kwik-N-Ezy)	19" SERIES 5, 7, 9 & 20" SERIES 0
6-0422	GRASS CATCHER (Slider Door)	19" SERIES 0, 1
6-0738	GRASS CATCHER (Kwik-N-Ezy)	19" SERIES 0, 1
6-1166	GRASS CATCHER (Kwik-N-Ezy)	19" (OPP Models Only)
6-1029	RECYCLING / MULCHING KIT (Cover)	19" & 20" MODELS
6-1033	RECYCLING / MULCHING KIT (Plug)	19" & 20" MODELS
6-0450	SNAPPERIZER KIT	19" & 20" MODELS
6-0956	SIDE DISCHARGE CHUTE KIT	19" & 20" MODELS
6-1152	CROSS BAR KIT (Grass Catcher)	19" (OPP Models Only)

21"STEEL DECK

PART NO.	DESCRIPTION	MODELS USED ON
6-0791	GRASS CATCHER (Slider Door)	21" MODELS
6-0856	GRASS CATCHER (w / Adapter) (Kwik-N-Ezy)	21" MODELS
6-0932	GRASS CATCHER (Kwik-N-Ezy)	21" SERIES 4, 5, 6, 7, 8, 9
6-0935	GRASS CATCHER (w / Adapter) (Kwik-N-Ezy)	21" SERIES 4, 5, 6, 7, 8, 9
6-1280	GRASS CATCHER (Kwik-N-Ezy)	21" (RO21380 Models Only)
6-0933	GRASS CATCHER (Kwik-N-Ezy)	21" (Commercial Models Only)
6-0936	GRASS CATCHER (Slider Door)	21" (Commercial Models Only)
6-1006	GRASS CATCHER (w / Adapter) (Slider Door)	21" (Commercial Models Only)
6-1153	GRASS CATCHER	21" (OPP Models Only)
6-1003	GRASS CATCHER BAG LINERS (10 to a Pack)	21" MODELS
6-1200	RECYCLING KIT (Ninja Cover)	21" MODELS (4 HP Engines & Above)
6-1201	RECYCLING KIT (Ninja Plug)	21" MODELS (4 HP Engines & Above)
6-0440	SNAPPERIZER KIT	21" MODELS
6-0960	THATCHERIZER KIT	21" MODELS
6-0965	THATCHERIZER ADAPTER KIT	21" SERIES 6, 7
6-0955	SIDE DISCHARGE CHUTE KIT	21" MODELS
6-1302	SIDE DISCHARGE CHUTE KIT (w / Blade)	21" (RO21380 Models Only)
6-0785	AIR LIFT KIT	21" MODELS
6-0658	ELECTRIC START KIT	MODEL YEAR 1971 TO 1976
6-0766	BATTERY CHARGER KIT	21" SERIES 5, 6, 7
6-1188	BATTERY CHARGER KIT	21" SERIES 9, 0
6-7012	BATTERY KIT (WET CELL)	21" SERIES 5, 6, 7, 8, 9, 0

21"CAST ALUMINUM DECK (SIDE DISCHARGE)

PART NO.	DESCRIPTION	MODELS USED ON
6-0936	GRASS CATCHER (Slider Door)	21" MODELS
6-1201	RECYCLING KIT (Ninja Plug)	21" MODELS
6-0295	SNAPPERIZER KIT	21" MODELS
6-0338	MULCHERIZER KIT	21" MODELS
6-0287	SIDE DISCHARGE CHUTE KIT	21" MODELS

21"CAST ALUMINUM DECK (REAR DISCHARGE)

PART NO.	DESCRIPTION	MODELS USED ON
6-1264	SIDE DISCHARGE CHUTE	21" MODELS
6-1263	RECYCLING KIT (Ninja Plug)	21" MODELS

NOTES

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SNAPPER

2 YEAR LIMITED WARRANTY

For two (2) years from purchase date for the original purchaser's residential, non-commercial use, **SNAPPER**, through any **SNAPPER** dealer will replace, free of charge, any part or parts found upon examination by the factory at McDonough, Georgia, to be defective in material or workmanship or both.

For ninety (90) days from purchase date for the original purchaser's commercial, rental, or other non-residential use, **SNAPPER**, through any **SNAPPER** dealer will replace, free of charge, any part or parts found upon examination by the factory at McDonough, Georgia, to be defective in material or workmanship or both.

All transportation costs incurred by the purchaser in submitting material to a **SNAPPER** dealer for replacement under this warranty must be paid by the purchaser.

This warranty does not apply to engines and their components, or, Peerless® Transaxles, as these items are warranted separately by their manufacturers. This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper lubrication, normal wear, or other cause beyond our control.

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two (2) years from purchase date for the original purchaser's residential, non-commercial use [ninety (90) days from purchase for the original purchaser's commercial, rental or other non-residential use], and to the extent permitted by law, any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages, under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WARNING: THE USE OF REPLACEMENT PARTS OTHER THAN GENUINE SNAPPER PARTS MAY IMPAIR THE SAFETY OF SNAPPER PRODUCTS AND WILL VOID ANY LIABILITY AND WARRANTY BY SNAPPER ASSOCIATED WITH THE USE OF SUCH PARTS.

IMPORTANT: Please fill out the attached **SNAPPER** Product Registration Card immediately and mail to:
SNAPPER, McDonough, Georgia 30253

SNAPPER

McDonough, GA., 30253 U.S.A.